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**AUGUST 1988**

# **VICTORIAN ENTOMOLOGIST**



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**News Bulletin of  
The ENTOMOLOGICAL  
SOCIETY of VICTORIA**



# The ENTOMOLOGICAL SOCIETY of VICTORIA (Inc.)

## MEMBERSHIP

Any person with an interest in entomology shall be eligible for Ordinary Membership. Members of the Society include professional, amateur and student entomologists, all of whom receive the Society's News Bulletin, the Victorian Entomologist.

## OBJECTIVES

The aims of the Society are :

- (a) to stimulate the scientific study and discussion of all aspects of entomology,
- (b) to gather, disseminate and record knowledge of all identifiable Australian insect species,
- (c) to compile a comprehensive list of all Victorian insect species and
- (d) to bring together in a congenial but scientific atmosphere all persons interested in entomology.

## MEETINGS

The Society's meetings are held at Clunies Ross House, National Science Centre, 191 Royal Parade, Parkville, Victoria, at 8 pm on the third Friday of even months, with the possible exception of the December meeting which may be held earlier. Lectures by guest speakers or members are a feature of many meetings at which there is ample opportunity for informal discussion between members with similar interests. Forums are also conducted by members on their own particular interest so that others may participate in discussions.

## SUBSCRIPTIONS

Ordinary Member .....	\$10.00
Country Member .....	\$ 8.00 (100 km + from GPO)
Student Member .....	\$ 5.00
Associate Member .....	\$ 2.00 (no magazine)

No additional fee is payable for overseas posting by surface mail of the News Bulletin. Associate Members, resident at the same address as, and being immediate relatives of an Ordinary Member, do not automatically receive a copy of the Society's publications but in all other respects rank as Ordinary Members.

Cover illustration by W.N.B. Quick.

Cyria imperialis (Fabricius), Banksia Jewel Beetle (Buprestidae).

MINUTES OF THE ANNUAL GENERAL MEETING 17 JUNE 1988

The President, Mr K. Walker, opened the meeting at 8.05 pm.

**Apologies:** T. New, D. & N. Stewart

**Present:** H. Braby, G. & J. Burns, P. Carwardine, K. Clark, D. Crosby, I. Faithfull, R. Field, D. & J. Holmes, M. Hunting, P. Kelly, S. Smith, R. Vagi

**Minutes:** The minutes of the 1987 Annual General Meeting (Vic. Ent. 17(4), 56-57) were passed (Crosby/D.Holmes)

**Resolutions:** Three resolutions as set out in Vic. Ent. 18(3) p.41 were put to the vote.  
Resolution 1. Passed 38/0  
Resolution 2. Passed 38/0  
Resolution 3. Passed 38/0

**Correspondence:** Tabled.

**Treasurer's Report:** G. Burns reported a credit balance of \$2484.56 (General Account) and \$1678.37 (Memorial Fund) and \$421.61 (Junior Fund). There are at present 79 financial members. Received (Crosby/Braby)

**Editor's Report:** I. Faithfull made a brief report. Received (G. Burns/J. Burns).

Ken Walker thanked the Council and members of the Society for the support he had received as President and gave a summary of Society activities for the past year. A vote of thanks to Ken was proposed by D. Crosby and passed with acclamation.

Ken Walker then stood down and M. Hunting took the chair for the election of Office Bearers with the following results:

<b>President:</b>	<b>Ken Walker</b>
<b>Vice-Presidents:</b>	R. Field, M. Hunting
<b>Secretary:</b>	T. New. Assistant: P. Kelly
<b>Treasurers:</b>	G. Burns
<b>Editors:</b>	I. Faithfull
<b>Excursion Secretary:</b>	P. Carwardine
<b>Councillors:</b>	M. Braby, D. Crosby, J. Field, P. Kelly

Ken Walker then gave his Presidential Address which consisted of an overview of the Spiders illustrated with a number of superb colour slides and finishing with some slides of his recent trip to south-west Tasmania. The address was received with acclamation.

**General Business:** It was proposed by K. Walker and seconded

by J. Burns that Mary Le Souef be made an Honorary Life Member of the Society. Carried unanimously.

- Exhibits:**
1. H. Braby: Larvae of Ogyris abrota with associated ants from the ground of LaTrobe University.
  2. H. Braby: Larvae of Delias harpalyce.
  3. J. Burns: An atlas of 1:250,000 maps of Victoria ruled for use in ENTRECS.

The meeting closed at 9.50 pm.

P. Kelly,  
Assistant Secretary.

#### MINUTES OF THE COUNCIL MEETING 15 JULY 1988

The President opened the meeting at 8.00 pm.

- Apologies:** T. New.
- Present:** M. Braby, G. & J. Burns, P. Carwardine, D. Crosby, I. Faithfull, M. Hunting, P. Kelly
- Minutes:** Minutes of the May Council Meeting (Vic. Ent. 18:40-41) were passed (Crosby/Faithfull)
- Correspondence:** Detailed and received (Carwardine/J. Burns)
- Treasurer's Report:** G. Burns reported a credit balance of \$2426.66 (General Account), \$1727.56 (Memorial Fund) and \$421.61 (Junior Encouragement Fund). There are at present 85 financial members. Received (Braby/Crosby).
- Editor's Report:** I. Faithfull reported (1) that postal costs will rise from 24c to 26c in the near future; (2) there is very little material in hand for the next issue. Received (G. Burns/Kelly)
- General Business:**
1. Possible speakers for the next few meetings were suggested:

August	Mark Harvey
October	Bernard D'Arbrera or H. Braby
December	Members night
February	Gordon Borg
April	Member Short Talks
  2. D.A. Books ask if they can sell our News Bulletin. Refer to T. New.

3. The incorporation of the Society is proceeding.
4. It has been arranged by K. Walker to send our 5 insect display cases to the Halls Gap Nature Show in October.
5. After some discussion it was considered necessary to formulate some definite policy on the conservation and the control of collecting of insects. With this in view a sub-committee was suggested comprising N. Draby, D. Crosby, T. Now and K. Walker. Moved (Kelly/Hunting)
6. G. & J. Burns tabled their work on the Duprostitidae records and some discussion took place on its publication.

The meeting closed at 9.40 pm.

P. Kelly,  
Assistant Secretary.

#### CHANGES IN MEMBERSHIP NUMBERS

Membership numbers have not been so high since 1974. This of course leads to a generalised round of backslapping and attempts to find causes. So here is one portrayal of the situation. Graph 1, on the next page shows membership 1967 to date. The membership numbers trend line is the important one. I don't have some of the data. Above the main line I have indicated some events which may be important in determining membership nos. from the Society's point of view. Below the line I have roughly drawn bars showing periods of office of some office bearers. This is far from complete and probably a little misleading. Perhaps others will be able to fill in the missing details and provide the true interpretations. I think broad socioeconomic and cultural factors are important. Thus the steep increase in membership from 1969 could be correlated with the growth of the environmental movement.

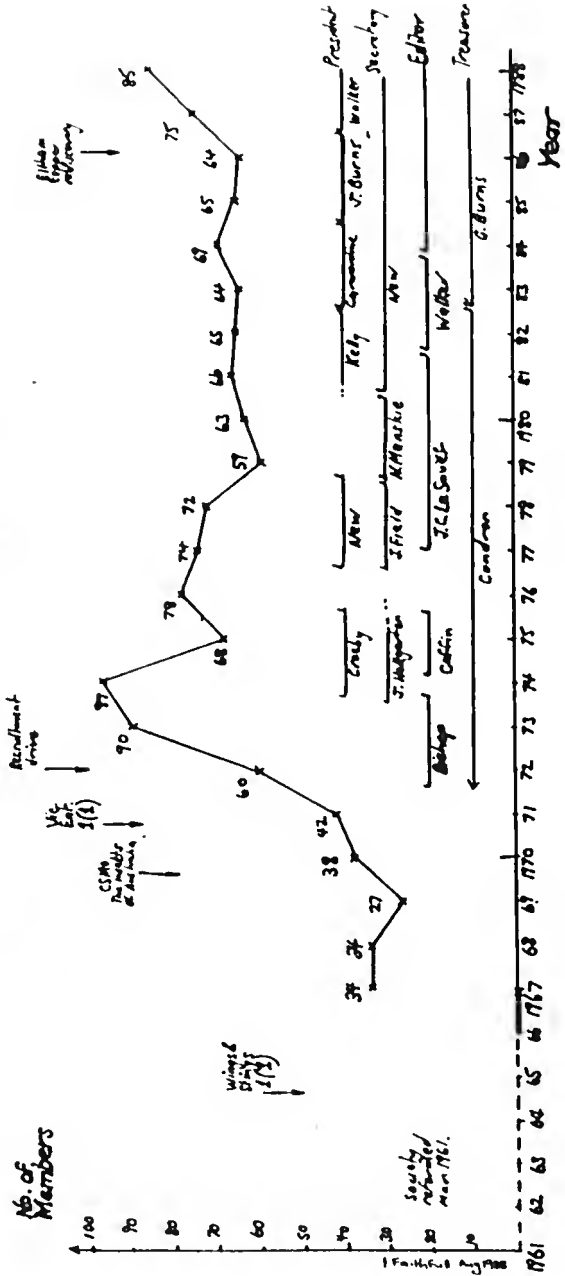
I have a few accompanying notes which may be of interest. 1. Data for 1967 to 1973 from J.F. Hutchinson's 'Report of Hon. Public Relations Officer', Vic. Ent. 4(2). He explained that during 1973 application forms were sent to ex members and prospective members and that this contributed to a growth in numbers of members from 60 to 90. However there were 76 members in December 1972 according to the Treasurer's report in Vic. Ent. 3(1). This issue also explains some other aspects of the recruitment drive. 26 of the 76 were Student or Junior members.

GRAPH 1

1967-1988  
MEMBERSHIP OF THE ENTOMOLOGICAL SOCIETY OF VICTORIA

Maximum annual financial members.

SOURCES: Society minutes as published in Vic Ent. J. E. Hutchinson, Report of the Hon Public Relations Officer (1967-88), 1974, 1976, 1978, 1980, 1982, 1984, 1986, 1988



2. The list of members November 1976 (Vic. Ent. 6(6)) totals 92, including 56 Ordinary, 11 Associate, 6 Junior or Student, 3 Honorary, 1 Life, 3 Exchange and 7 Non-contributing.

3. Common and Waterhouse 'Butterflies of Australia' first published 1972 as also Australian Entomological Magazine.

Graph 2 below shows the change in membership numbers within each of the years 1984 to 1988. These reflect the methods of administration to some extent: in 1985 and 1986 subscription reminder notices for the year in question were sent in December only. A further reminder to unfinancial members was sent in Jan. 1987. June 1987 saw another round of notices. In December 1987 a subscription renewal form was included with the NewsBulletin for the first time in my memory resulting in the high initial numbers.

Ian Faithfull

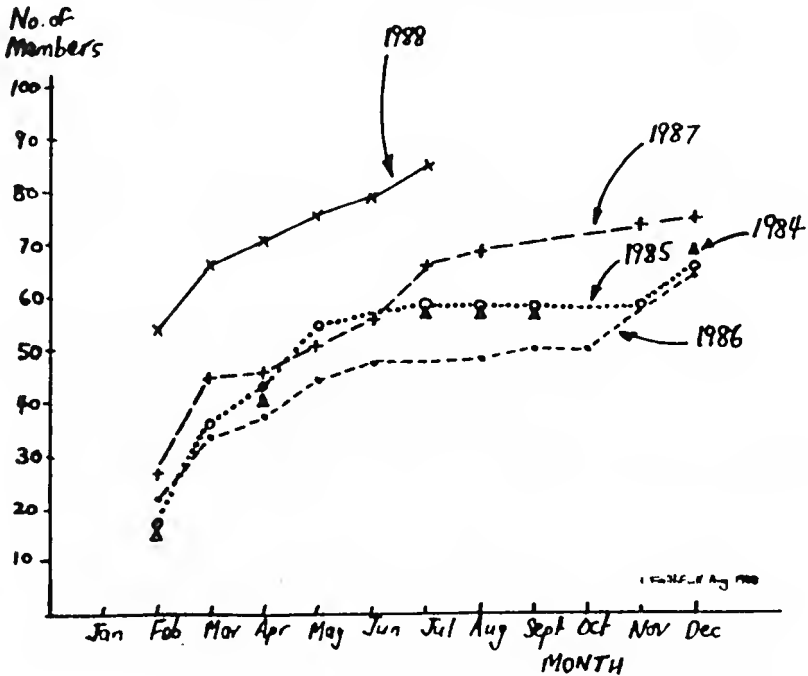
GRAPH 2

x—x 1988  
 +---+ 1987  
 ..... 1986  
 o..... 1985  
 ▲ ▲ 1984

ESV Financial Members

Comparison of Annual Growth 1984-8

Source: Hon. Treasurers Report in Minutes, Vic. Ent.



## VISIT TO BARRINGTON TOPS JANUARY 1988

Tony Morton, 32 Chatsworth Road, Prahran, Victoria, 3181

I drove to the Tops via the Newell, Oxley and New England Highways. On the way, 35 kilometers ENE of Coonabarabran, in the Oxley Crossing Rest Area, I found plenty of Candalides geminus. These butterflies were flying low to the ground and settling frequently, quite differently, I thought, to the habits of the very similar Candalides hyacinthinus.

I turned east at Scone, drove through Noonan Flat, through the dingo fence, and took the Polblue Ridge Road. Here on 15 January I found Anisynta dominula draco, Heteronympha merope, Orelixenica kershawi ella, Jalmenus evagoras and Zizina labrodus.

En route to Dilgry Circle Road, I noticed Grophlum macleayanum and Polyura pyrrhus sempronius. Around the Dilgry River there was much Gahnia, and consequently Hesperilla idothea and H. crypsargyra hopsoni, as well as Flisiphone aboona regalis, were to be found, though not plentifully. Banksia picnic area proved to be a delightful place to camp. After Tooraweenah and Murrumbidgee, where I had stayed before, the river water was delicious. I was expecting to stay a few days, but a heavy storm next morning made me change my mind, and I moved on! This was just as well, as it happened, for the weather was really bad for the next week.

There is a lot of lovely country between Taree and Raymond Terrace, but it is getting 'developed'. In Buladollah State Forest I found a small colony of Jalmenus evagoras and, while I was stalking a freshly emerged Flisiphone aboona, a Willie Wagtail (Rhipidura leucophrys) swooped down and caught it first! This was on 17 January.

At Green Point, near Gosford, there was plenty of what they consider common to see when the sun came out. Haesora khoda haslia is not infrequent in gardens and, on 19 January on Mount Pleasant, at Saratoga (east of Gosford), there are some interesting Theclinesthos and Hypochrysois delicia is also to be found. By this time the sun had reemerged and I had to get back!



NORTH-EAST TASMANIA - DECEMBER 1987

Tony Morton, 32 Chatsworth Road, Prahran, Victoria, 3181

Christmas spent with relations in Scottsdale gave me the opportunity to do some collecting in that area. On the coast I visited swampy areas between Bridport and Waterhouse (1), and Mount William National Park (2). In the hills south of Scottsdale (3), I walked over the Diddieum Plains (4), drove from Ringarooma to Mathinna (5), and spent a few hours in 'myrtle' (Nothofagus) forest at Weldborough Pass (6).

There were plenty of butterflies about on the coast, fewer in the hills. It seems that I was a little late for spring species and too early for others, particularly for the true Tasmanian ones. Though very cleared and over-planted with pines, this is a very lovely part of the world. The many fly-catchers and large flocks of spurwinged plovers were a feature of the bird life.

Below is a list of the species seen. Those found only in a limited way have the number corresponding to the locality listed above beside them. Dates: 15-29 December 1987.

*Hesperilla idothea idothea*  
*Hesperilla donnyssa aurantia*  
*Hesperilla chrysotricha plebia* (1),(2)  
*Taractrocera papyria papyria* (3)  
*Ocybadistes walkeri sothis* (1)  
*Graphium macleayanum macleayanum* (5),(6)  
*Geitoneura klugii klugii*  
*Heteronympha merope salazar*  
*Heteronympha cordace legana* (4),(5)  
*Vanessa itea*  
*Paralucia aurifera* (1)  
*Neolucia agricola insulana* (5)  
*Lampides boeticus* (on lupin in garden in George Town)  
*Zizina labradus*

My sincere thanks go to Messrs L.E. Couchman and D.F. Crosby for supplying me with details of species and localities.

SIGHTING OF BLUE TRIANGLE, GRAPHIUM SARPEDON CHOREDON,  
(LEPIDOPTERA : PAPILIONIDAE) AT LAKE TYERS DISTRICT, VICTORIA

John Burns, 274 Church Street, Templestowe, Victoria, 3106

A woman by the name of Maisie Byrne lives at the termination of Byrnes Track at Lake Tyers (Toorloo Arm). Her family has been resident for approximately 100 years at Lake Tyers. She is an extremely agile and observant lady in her 70s and for many years has skilfully documented the occurrence of all vascular plant in the Lake Tyers district. Her sister lives in the Colquhoun forest between Nowa Nowa and Bruthon, in warm temperate rainforest where one can find Candallides xanthospilos, Hesperilla mastersi and H. picta, classic temperate jungle species.

I paid Maisie a visit in January 1988, and having a McCubbin Butterflies of Australia in the car, conversation naturally turned to that subject. She shows great interest in all aspects of nature study. With sudden inspiration she recalled a beautiful blue butterfly landing on her sister's chest earlier that summer at Colquhoun. She recalled three salient features: 1. Approximate size 50% of her hand area (i.e. small Lycaenidae, Ogyris, out of the question); 2. Strong blue colour, almost vivid blue; 3. steady vibration of the wings as the butterfly perched.

My interest was aroused. So I showed her McCubbin's picture of, first, the Common Eggyfly, and, second, the Blue Tiger. She declined recognition. In desperation I showed her the only other "strong blue" butterfly (short of an Oak Blue or Ulysses!), Grophium sarpedon, the Blue Triangle. Maisie showed immediate recognition.

Three other observations further strengthen my conviction that this was indeed a Blue Triangle. 1. Blue Triangles have been recorded down the South Coast of New South Wales to Pambula at least, which is only 200 km away as the crow/butterfly flies. 2. Waterhouse and Common (1981) state that Tristania laurina (now Tristanopsis laurina) has been recorded but not confirmed as a foodplant. According to Deanglehole (1986) this plant has been recorded west to the Mitchell River, but Costermans (1981) says Kanuka is found across East Gippsland to the Avon River. Its presence on the western side of the Avon has been confirmed by Dr Paul Gullan (pers. comm. July 1988). 3. Butterflies of the Papilionidae or swallowtail family do exhibit steady vibration of wings when perched on a blossom, etc. Blue Tigers and Common Eggyflies do not.

#### References

- Deanglehole, A.C., 1985. The Distribution and Conservation of Vascular Plants in the Gippsland Lakes Hinterland. Western Victorian Field Naturalists Clubs Association  
Common, I.F.B. and Waterhouse, D.F., 1981. Butterflies of Australia. Revised Edition. Angus and Robertson  
Costermans, Leon, 1981. Native Trees and Shrubs of South-eastern Australia. Rigby  
McCubbin, Charles, 1971. Australian Butterflies. Thomas Nelson

EXTENSION OF RANGE OF PSEUDALMENUS CHLORINDA ZEPHYRUS  
(LEPIDOPTERA : LYCAENIDAE)

John Burns, 27<sup>1</sup>/<sub>4</sub> Church Street, Templestowe, Victoria, 3106

Common and Waterhouse (1981) state the westerly limit of Pseudalmenus chlorinda zephyrus as Gisborne, meaning the Camels Hump and environs of Mt Macedon, possibly one of George Lyell's records. Nigel Quick has also confirmed the presence of zephyrus at Mt Macedon.

With this knowledge in mind, and recalling excellent Acacia dealbata and A. melanoxylon distribution further to the west, I undertook during November 1987 a trip to the Werribee River State Park (at the upper end of the Werribee River, Lerdorferg River catchments). The turn off into the Park is in the vicinity of Korweinguboora on the Balian - Daylesford Road. The forest there comprises taller eucalypts to 30 metres with Acacia, Prostanthera, Heilchrysum shrubby understorey and numerous sedges. In the protected gullies are Lomandra, Pomaderris, etc. Where the road (gravel only) crosses the Werribee River, about 3 km from Korweinguboora, a melanoxylon betrayed the presence of my first Hairstreak colony. The foul smelling ant Iridomyrmex hi-convexus (= I. foetans, see Faithfull, 1986), which I know from Kallista in the Dandenong Ranges, was present. Its "wonderful odour" was firmly entrenched on a tall Eucalyptus two metres from the host plant. Approximately four Hairstreaks roved the superstructure of the Blackwood wattle looking for the opposite sex. When they perched momentarily (just out of reach of a deftly placed net) the distinct red/yellow patches on the upper-sides could be clearly seen. After 15 frustrating minutes perched atop a large basalt boulder I reluctantly moved on.

These large boulders litter the stream bed and the adjacent sides of the upper Werribee River valley. In unusually high floods they are forced downstream under enormous hydraulic pressures. The adjacent Lerdorferg River valley is renowned for flash floods and has marooned hikers in its midst. The Werribee and the Lerdorferg arise from the same vicinity of the

Great Dividing Range at approximately 750 m altitude, although the middle stages of each river differ widely in geographical presentation.

The gravel road from the picturesque Worribee River crossing proceeds up the valley side into Acacia dealbata forest interspersed with eucalypts. Most of the Silver Wattles are small and spindly, no more than 4 m in height. It was on these short "trees" at one location that at least 20 Hairstreaks materialised. They were very easy to net, being so low to the ground. Females were observed hopping along the ground, particularly at the base of the smallest dealbata growths. One particularly extroverted female, having landed, seemed to be happy to have the biconvexus ants move to her twitching form and touch her with their feelers, although this short communion was cut short by a short jerky flight to a nearby position.

100 metres down this road no Hairstreaks were evident, this colony being restricted to a radius circle of 30 metres, over which they roamed continuously in the bright sun (30 degrees C maximum that day).

Again further along there was yet another small colony on a large 10 metre tall melanoxydon on the north side of the Divide, near Bullarto South. Only two individuals were sighted on this wattle.

These specimens have been identified as most closely resembling zephyrus, but are minus a black stripe on the underside rear wing.

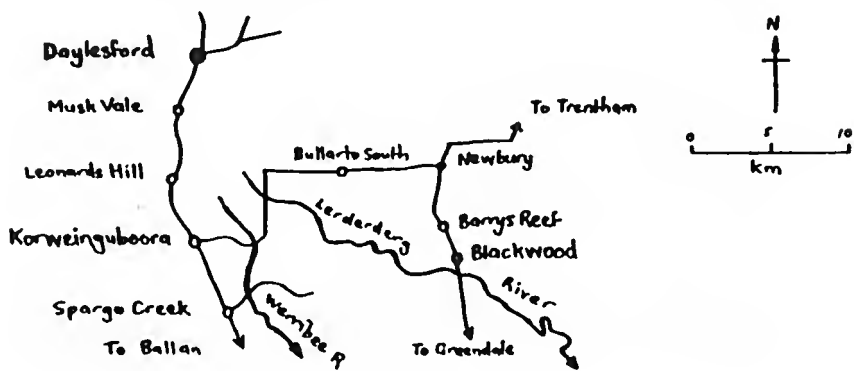
Although my day ended at about 4 pm with the need to return to Melbourne, I fully expect the occurrence of these pretty lycaenids to be widespread in this central Victorian vicinity. Certainly, the following map covers areas of suitable habitat and montane aspect with reduced average temperatures that these Hairstreaks thrive in.

I notice with interest that zephyrus has been located at The Basin (K. Dunn and R. Mayo, Vic. Ent. 17(6):115) at an altitude of about 120 metres. It has also been known from Lower Forntree Gully (Higot Quick). These records confirm my belief that the butterfly can be at lower altitudes than is

generally thought. Question : could this species be in the Mt Cole area or the Pyrenees? The habitat is suitable, if perhaps the elevation is rather short.

References

Common, I.F.B. and Waterhouse, D.F., 1981. Butterflies of Australia. Angus and Robertson  
 Faithfull, Ian, 1986. Acacia pravissima, another larval food plant for the Australian Hairstreak, Pseudalmonus chlorinda zephyrus (Lycaenidae). Vic. Ent. 16(6):78-9



**'PRELIMINARY DISTRIBUTION MAPS OF BUTTERFLIES IN VICTORIA'**  
 Published by the Entomological Society of Vic.

Maps of the recorded distributions of the 108 species of butterflies known from this state, plus associated information about the ENTREC Scheme. Cost \$10.00 plus \$2.00 postage and handling, from:

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A List of Members' names, addresses and interests will appear in the December issue. If your interests have changed or you would like your phone number listed please contact the Editor.

THE BIG DESERT - RED BLUFF AND THE BORDER TRACK

3 TO 7 NOVEMBER 1984. PART 2.

Ian Faithfull, 58 Novillo Street, Box 1111 South, Vic., 3128

4 November was overcast. The south wind was chilly but there was no rain. A small village of naturalists had sprung up.

One of the first animals for the day was a Blackburnium cavicolle that had been unearthed while digging a fire pit on the previous evening. It is one of the Geotrupine scarabs, a powerful, highly convex beetle, which stridulates loudly when handied and buries itself rapidly in the sand. Goudie (1919, op. cit.) reported that species of Blackburnium (then Bolbo-cerns) were often trapped in post holes left open overnight when fences were being erected. However none were trapped in either mammal or beetle pitfall traps laid in the Red Bluff area. Howden (1979) recorded the species from many localities neighbouring the Big Desert including Hattah, Kiata, Little Desert, Ouyen and Wyperfeld National Park. According to Matthews (1984) they feed on buried humus and underground fungi. Two other specimens, a young female and a minor male came to light on 7 November after the weather had warmed.

A single specimen of Cryptodus paradoxus (Scarabaeidae : Dynastinae) was observed at 1.30 pm just west of our camp as it crawled across the sand of the access track. Few genera of this subfamily are known to show surface diurnal activity (Carne, 1957a) and Cryptodus was not known to be one. The genus consists of over 20 species of ant and termiteinquillines of remarkably similar external morphology (Carne, 1957a).

The small, aposematically coloured longicorn beetle Earinus kreusleri was taken on Molalouca uncinata and again on 6 November. There are specimens in the Museum of Victoria from Kiata, the Little Desert and Inglewood.

A much smaller beetle, Anthicus brevicollis (Anthicidae), was collected from flowers of the Silky Teatree, Leptospermum myrsinoides. Goudie (1924b) reported six species of Anthicus from north-west Victoria and Matthews (1987) indicated the presence of about thirty species in South Australia. A. brevicollis was common in some areas visited.

A further find of interest during the afternoon was another Onthophagus blackwoodensis inside a dung pellet of the Western Grey Kangaroo. I examined large numbers of such pellets but found only this one specimen. Matthews (1972) pointed out that it is an exceptionally xerophilic species adapted to mallee country and seems to be replaced by O. victoriensis in the wetter areas to the south.

The skeletal remains of the very large jewel beetle Julodimorpha bakewellii seemed to be more abundant in the deeper sand areas. The adults are known to bury themselves (G. Burns,

pers. comm.), but they are "short-lived, appearing for about 10 days in late December in South Australia" (Matthews, 1985). Their lumbering flight has led to the nickname Jumbo Jets (Helicoin Turner, Vic NPWS). Matthews (1985) summarises information on the species, while Gwynne and Rentz (1983) describe its famous attraction for stubby beer bottles in Western Australia. Carnaby (1987) illustrates a bottle almost covered with males.

To be continued.

### References

- Carnaby, Keith, Jewel Beetles of Western Australia. Keith Carnaby, Wilga, Western Australia.
- Carne, P.B., 1957a. Systematic Revision of the Australian Dynastinae. Division of Entomology, CSIRO, Melbourne
- Goudie, J.C., 1924b. Notes on the Coleoptera of north-western Victoria. Part XI. Victorian Naturalist 41:25-30
- Gwynne, D.T. and Rentz, D.C.F., 1983. Beetles on the bottles: male buprestids mistake stubbies for females (Coleoptera). J. Aust. ent. Soc. 22(1):79-80
- Howden, H.F., 1979. A revision of the Australian genus Blackburnium Boucomont (Coleoptera:Scarabaeidae:Geotrupidae). Aust. J. Zool. Suppl. Ser. 72.
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1984. A Guide to the Genera of Beetles of South Australia. Part 3. Polyphaga: Eucinetoiden, Dascilloiden and Scarabaeoidea. Special Educational Bulletin Series South Australian Museum, Adelaide.
1985. Beetles of SA Part 4. Polyphaga:Byrrhoidea, Duprestoiden, Dryopoiden, Elateroidea, Cantharoiden, Derodontoidea, and Bostrichoidea. SA Museum, Adelaide
1987. Beetles of SA Part 5. Polyphaga:Tenebrionoiden. SA Museum, Adelaide,

### BUTTERFLIES AND MYTHOLOGY NO. 6

- Sthenelus (1) - King of Mycenae. Son of Perseus and Andromeda. His wife Hippo bore him Alcinoe, Medusa, and Eurystheus.
- Sthenelus (2) - Son of Capaneus and Evadne. Went to Troy with his close friend and companion Diomedes. When the wooden horse was sent into Troy, Sthenelus and 22 others were hidden in the hollow belly.

- Jean Brown

## RECENT PUBLICATIONS OF INTEREST

This feature is not meant to provide comprehensive coverage of any aspect of the entomological literature, nor are all sources cited examined systematically. If you are aware of material not covered here, in which others may be interested, or feel that something important needs listing, please send details to the Editor for inclusion in the next issue of the News Bulletin.

Rudolf J. Kohout, New nomenclature of the Australian ants of the Polyrachis gab Forel species complex (Hymenoptera: Formicidae: Formicinae). Australian Entomological Magazine 15(2):49-52, 15 June 1988. 2 infraspecies raised to specific status, key for 3 spp. plus illustrations.

Michael F. Braby, A note on directional flights of Eureme smilax (Donovan) (Lepidoptera: Pieridae) and Daneus chrysippus petilia (Stoll) in Victoria. Aust. ent. Mag. 15(2):53-7. Summary of lit. & new observs. Low density westerly migrations during Feb and Mar 1984.

A.P. Mackey, Records of two little known Nymphidae (Neuroptera) from Central Queensland. Aust. ent. Mag. 15(2):58. Neasydrion dianthum & N. fuscum from Mt. Archer.

M.J. Hockey & N. DeBaar, New larval food plants and notes for some Australian Cerambycidae (Coleoptera). Aust. ent. Mag. 15(2):59-66. 56 spp. in 3 subfams. in Qld. No host plant summary.

David G. James, Aestivation and reproductive dormency in adult Heteronympha merops merops (Fabricius) (Lepidoptera: Nymphelidae) Aust. ent. Mag. 15(2):67-72. Female Common Browns emerge in Oct-Nov then aestivate. Reproductive maturation occurs in Jan and females become gravid from mid Feb to mid April when activity becomes intense.

G.A. Webb, Notes on the biology of Skeletodes tetrops Newman (Coleoptera: Cerambycidae). Aust. ent. Mag. 15(2):73-5. Host plants, larval tunnelling (illustr.), adult size variation, camouflage of this Citrus feeding longicorn.

Gary Dodson and Gregory Daniels, Diptere reared from Dysoxylum gaudichaudianum (Juss.) Miq. et Iron Range, Northern Queensland. Aust. ent. Mag. 15(2):77-9. 6 spp. from 4 families reared from decomposing trunk of rainforest tree.

Antony Walker, North Africa mobilises to fight locust invasion. The Age, 8 June, p.11. Deborah MacKenzie, Locusts thrive as pesticide ban stays. New Scientist 31 Mar, p.17. Worst plague in 30 years. 1950s plague took 10 years to control. Blamed on substitution of dieldrin by the short-lived fenitrothion.



Nicole Duplax, Fleas : The Lethal Leapers. National Geographic 173(5):672-694, May 1988. Heavily illustrated - selected species, flea circus, bubonic plague, flea control

The Texas town of Brownsville awaits invasion of killer bees. New Scientist 18 Feb. 1988, p.28. The spread continues. Possibility of control by crossbrooding with other African bees, other control possibilities.

David Thompson and Robin Dunbar, Sex for dragons and damsels. New Scientist 25 Feb., pp.45-8. Male dragonflies may spend 95% of their time in copulation removing other males' sperm from the female with their peculiar penises. Mating and other reproductive behaviour.

Bees thrive on positive discrimination. New Scientist 10 March, p.35. The work of Michael Schwarz, LaTrobe Uni., on why Exoneura bicolor produces more females than males.

L.I. Gilbert and T.A. Miller, Immunological Techniques in Insect Biology. Springer Verlag Series In Experimental Biology, 1988. 290 pp. approx. A\$88.00. Method book.

G.O. Poinar Jr. and H-B. Jansson (Eds.), Diseases of Nematodes. CRC Press Inc., 1988. 2 volumes each c.160 pp. and A\$145.50. Of interest to entomologists researching biological control.

A.A. Berryman (Editor), Dynamics of Forest Insect Populations. Patterns, Causes, Implications. Plenum Publishing, May/June 1988. C. 596 pp., A\$126.75. Mainly north hemisphere stuff but discussion of the white lace lerp in South Australia.

J.G. Conran, Observation on the floral phenology and visitors of Dryophila moorei (Luzuriagaceae) in South-east Queensland. Victorian Naturalist 105(3):43-7, May/June 1988. Pollination biology of this shrub related to the lilies. Syrphid flies, Balamara cricket, Chrysomelid beetles, Lassioglossum bee, etc.

Arthur Woods, The industrious flea. Australian Natural History 22 (9):396-9. Leaping abilities, life cycles, fossils, flea traps.

Win Bennett, Botany Group excursion to Mullum Mullum Creek led by John Reid 27 February 1988. Victorian Naturalist 105(3):56-7. 5 butterfly spp., 2 moths.

Six heliothis a metre are worth spraying. Weekly Times 13 April, p. 26. Control of budworm (Heliothis) in lupins. 20-30 budworm per square metre are not uncommon and up to 120 can be found. Sumicidin followed by Decis and Cymbush and Ripcord proved best chemicals in W.A. trials, and misters are the recommended application device.

Chris McLennan, Honey Industry gets a sting to its tail. Weekly Times 4 May, pp.16-7. Australia one of the four major honey exporter countries with 18,000 tonnes exported per year and 6000 registered beekeepers. The origins of Capilano honey and the export industry, the operations of its Maryborough plant.

Recent Publications of Interest (continued)

- S. Barker, Stigmodera (Castiarina) (Coleoptera: Buprestidae): Taxonomy, new species and a checklist. Transactions of the Royal Society of South Australia 110(1):1-42. Theoracle on the stigs. Coloured illustrations. May 1986.
- S. Barker, Eighteen new species of Stigmodera (Castiarina) (Coleoptera: Buprestidae). TRSSA 111(3):133-157. More collectors favourites: alecgemelli, arida, dugganensis, chameleuci, vanderwoudene, gordonburnsii, calliaina, goudiana, livida, viridissima, oarina, sundholmii, aglala, atra, lauta, gardnerae, jimturneri, kanangara. Interesting photomicrographs of male genitalia.
- G.H. Barker, Coleoptera, Scorpionida and Reptilia collected in pitfall traps in Engelbrook National Trust Reserve, South Australia. TRSSA 110(1):43- Beetles from Carabidae, Staphylinidae, Scarabaeidae, Elateridae, Tenebrionidae, Curculionidae. 30 May 86.
- Bernard Guerin, New records of spiders (Arachnida:Araneae) from South Australia. TRSSA 110(4):177-9. Numerous species.
- Bernard Guerin, Celaenia etkinsoni (Arachnida: Araneae): New record for South Australia with a description of the male. TRSSA 110(4):181-2, 26 November 1986.
- P.R. Birks and A.M. Olson, Pesticide concentration in some South Australian birds and other fauna. TRSSA 111(2):67-77, 29 May 1987. Data from 1968 to 1973. Surely this sort of information needs to be published a little more promptly?
- T.F. Houston, Fossil brood cells of Stenotritid bees (Hymenoptera: Apoidea) from the Pleistocene of South Australia. TRSSA 111(2):93-8. Fossils illustrated, site discussed, erroneous information corrected.
- Dinah F. Hales and R.M. Lardner, Genetic evidence for the occurrence of a new species of Neophyllephis Takahashi (Homoptera: Aphididae) in Australia. J.Aust.ent.Soc. 27(2):81-5, 31 May 1988. A 4th spp. N. lanata from Podocarpus. The discovery of a new native aphid is an unusual event.
- M.M. Elson-Harris, Morphology of the immature stages of Decus tryoni (Froggatt) (Diptera:Tephritidae). J.Aust.ent.Soc. 27:91-8. Scanning electron micrograph based study of the Queensland Fruit Fly.
- W.G. Vogt, Influence of weather on trap catches of Chrysomya rufifacies (Macquart) (Diptera:Calliphoridae). J.Aust.ent.Soc. 27:99-103. Trap catches of Musca vetustissima Walker (Diptera: Muscidae) and other arthropods associated with cattle dung in relation to height above ground level. J.Aust.ent.Soc. 27:143-7. The Hairy Haggot Blowfly and the Bush Fly.
- D.H. Davies and H. Györkös, Two new Australian species of Simuliidae (Diptera). J.Aust.ent.Soc. 27:105-11. Two new Blackflies from SE Aust.

A.C. Postle and T.E. Woodward, The digestive and male internal reproductive systems of some Australian Anthoecoridæ (Hemiptera). J.Aust.ent.Soc. 27(2):117-29. 11 spp. illustrated. Alimentary canals and salivary glands show some specific differences.

F.J.D. McDonald, Theseus grossi sp.n. (Hemiptera: Pentatomidae) from northern Australia. J.Aust.ent.Soc. 27:131-2. From Qld & NT.

J.F. Donaldson, Further studies on Asiracinae (Homoptera: Delphacidae) in Australia and New Caledonia. J.Aust.ent.Soc. 27:133-41. New gen. Kiambrama, 4 nov. spp., one synonym, key to genera, key to spp. of Kiambrama and Notuchus. Small planthoppers.

H.B. Malipatil, Two new species of Halobates Eschscholtz (Hemiptera: Gerridae) from Australia. J.Aust.ent.Soc. 27:157-60. Marine water-striders from NT and NWA, H. australiensis and H. ashmorensis.

Martin Redfern, First trials for a malaria vaccine. New Scientist 10 March, p.33.

Helen Givaghan, Chinese weed joins the antimalarial arsenal. Now Sci. 31 March, p.28. Artemisin annua, annual wormwood being the plant; arteether the drug.

...while caterpillars throw up defences. Now Sci. 31 March, p.29. The N.American eastern Tent Caterpillar, Halacosoma americanus produces a defensive regurgitation containing cyanide and benzaldehyde derived from the leaves of their favoured food, the black cherry (Ecology 66:1268).

Grant Da Costa, Car Touring and Bush Walking in East Gippsland. ACF Enterprises, 672B Glenferrie Road, Hawthorn, 3122. \$16.95 + \$3.00 post and packing. First comprehensive guide. 224 pp. includes 32 pp. colour photos and 27 detailed 2-colour maps. 17 car tours, 59 places of interest and 45 bushwalks.

#### COURSES

All About Insects. Leaders Paul Horne and Janet Comery. 25-27 November. Cost \$135. At Retamah Island Bird Observatory, PO Box 75 Pynesville, Vic., 3880, tel. (051) 56 6398, operated by the Royal Australasian Ornithologists Union.

All About Insects. Leader Geoff Helloway. 6-8 January 1989. Cost \$96. At Barrren Grounds Bird Observatory, PO Box 3, Jamberoo, NSW, 2533, tel (042) 36 0195, operated by the RAOU.

Include day and night field work and collection, preservation and identification of insects.

East Gippsland National Parks

Two thirds of East Gippsland National Estate forest is now protected with the passage of the EG National Parks Bill through the Vic. Parliament on 6 May, with the support of the Liberal Party. The Government is considering large scale woodchipping and a pulpmill for the region, both of which are being opposed by the environment movement, and is seeking World Heritage listing for the newly declared Parks. Some of the areas not protected will be excluded from logging while a Land Conservation Council study into wilderness in Victoria is undertaken and may in the long run be preserved as gazetted wilderness areas.

East Gippsland Coalition News July

Mullum Mullum Creek

A proposed four to six lane bypass around Ringwood will destroy 4.5 hectares of land along the creek according to local residents who fighting the Road Construction Authority proposal .

The Age 26 July, p.18

Wonnangatta Station Purchase

"Mountain Cattleman" are angry at the Government purchase of the 500 hectare property, which holds a 40,000 ha leasehold. It will become part of the Wonnangatta Moroka National Park, which virtually encircles it.

Weekly Times 13 April, p.3



## ON THE GRAPEVINE

David Crosby recently contacted Tony Bishop, who now lives in Sydney. He is no longer collecting butterflies, partly being put off by all the good spots in Sydney now being in National Parks! He has become very interested in the native orchids of the Sydney area, and is studying and photographing them. After leaving Melbourne Tony went to the Zoology Department, University of Sydney, had a brief spell in the ACT then to the Australian Museum in Sydney. Recently he has been employed as a natural history book editor but subsequently branched out to do this freelance. He has been busy but finding this work rather unremunerative, so he thinks he will soon go into computer programming! Tony was an active member of the Society from 1970 to 74, and was Editor from August 1972 to April 1974. This was when he left for NSW, but he remained an interstate member till 1982. He would be interested to hear from any members visiting Sydney. His address is Flat 9, 34-36 Diamond Bay Road, Vaucluse, NSW, 2030 and phone (02) 337 5407. (D.F.C.)

Not only Gordon Burns had a new Stigmopora named after him by Shelley Barker. Amongst others, ESV members Aian Sundholm (sundholm) of Sydney and J.R. Turner (jturneri) of Penrith, NSW have been honoured.

New member Dr Roger Steer of 67 Boundary Street, Kerang, 3579, is interested in the moths of northern Victoria. He would like to hear from others who share his interest, so don't hesitate to establish contact.

The Age of 19 July reported that 2 year old Eric Taylor, who was lost for 4 days in rugged country at Mount Leswell near his north Queensland home "is believed to have survived on insects and by sucking wet foliage or drinking rainwater".

New member John Burns has been doing some work with Michael Braby at LaTrobe University. Mike will reveal some of his discoveries at the August general meeting. John is the Manager of Burns Business Systems and provides sales and service of typewriters, photocopiers and other business machines. He is tracking down lots of interesting butterflies in the Melbourne metropolitan area.

Mark Hunting has been invited to the wedding of Kelvyn Dunn to Jodie Bell in Maryborough on 10 September. Kelvyn reports that things are going fine and that he has been very busy with work etc. Not much flying in late July except the winter butterflies Delias nigripina and D. argentiflora. His new address: Flat 1, Island View Villas, Mungar Road, Maryborough, 4650.





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#### WANTED : EXCHANGE

Mervyn Phillips of 268 Nays Lane, Barnet, Herts, EN5 2QG, England, would like to exchange specimens. He is mainly interested in Colias, Birdwings, Delias and Skippers, but he collects all moths, butterflies and beetles. He has spares from USA, Malaysia, Italy, Franco, Spain, South America, Canada, Japan, Sweden, Africa and the UK.

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**TO SAIL BEYOND THE SUNSET. NATURAL HISTORY IN AUSTRALIA 1699-1829.** Colin M. Finney. Award winning book which traces the development of nat. history from Dampier to the early 19th century naturalists. 216 pp., 315 x 116 mm, 95 col. 53 b/w illustrations.

\$25.00 + \$5.00 postage

## **CONTRIBUTIONS TO THE VICTORIAN ENTOMOLOGIST**

The Society welcomes contributions of articles, papers or notes pertaining to any aspect of entomology for publication in the News Bulletin. Contributions are not restricted to members but are invited from all who have an interest. Material submitted should be responsible and original. Statements and opinions expressed are the responsibility of the respective authors and do not necessarily reflect the policies of the Society. It is of great assistance if contributions are typed on paper of A4 (International Quarto) size, one and a half spaced with triple spacing between paragraphs and a margin of 3 cm.

## **ADVERTISING**

The charge for advertising is \$5.00 per half page.

**DEADLINE FOR THE NEXT ISSUE IS FRIDAY 30 SEPTEMBER**

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## OFFICE BEARERS

<b>President</b>	- Ken Walker, Museum of Victoria, 71 Victoria Cres., Abbotsford, 3067. 419 5200 (BU)
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<b>Past President</b>	- Joy Burns
<b>Councillors</b>	- Michael Braby, David Crosby, Julie Field, Peter Kelly

## DIARY OF COMING EVENTS

Friday 19 August 8 pm	- General Meeting. Michael Braby ; "The Butterfly Fauna of LaTrobe Uni."
16 September	- Council Meeting
21 October	- General Meeting. Mark Harvey ; "Australian Water Hite Tales"
18 November	- Council Meeting
December	- General Meeting. Members' Night. Contributions invited.

Scientific names contained in this document are not intended for permanent scientific record, and are not published for the purposes of nomenclature within the meaning of the International Code of Zoological Nomenclature, Article 8(b). Contributions are not refereed, and authors alone are responsible for the views expressed.



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